

XMI: Object Interchange

Stolen and modified by David Price from
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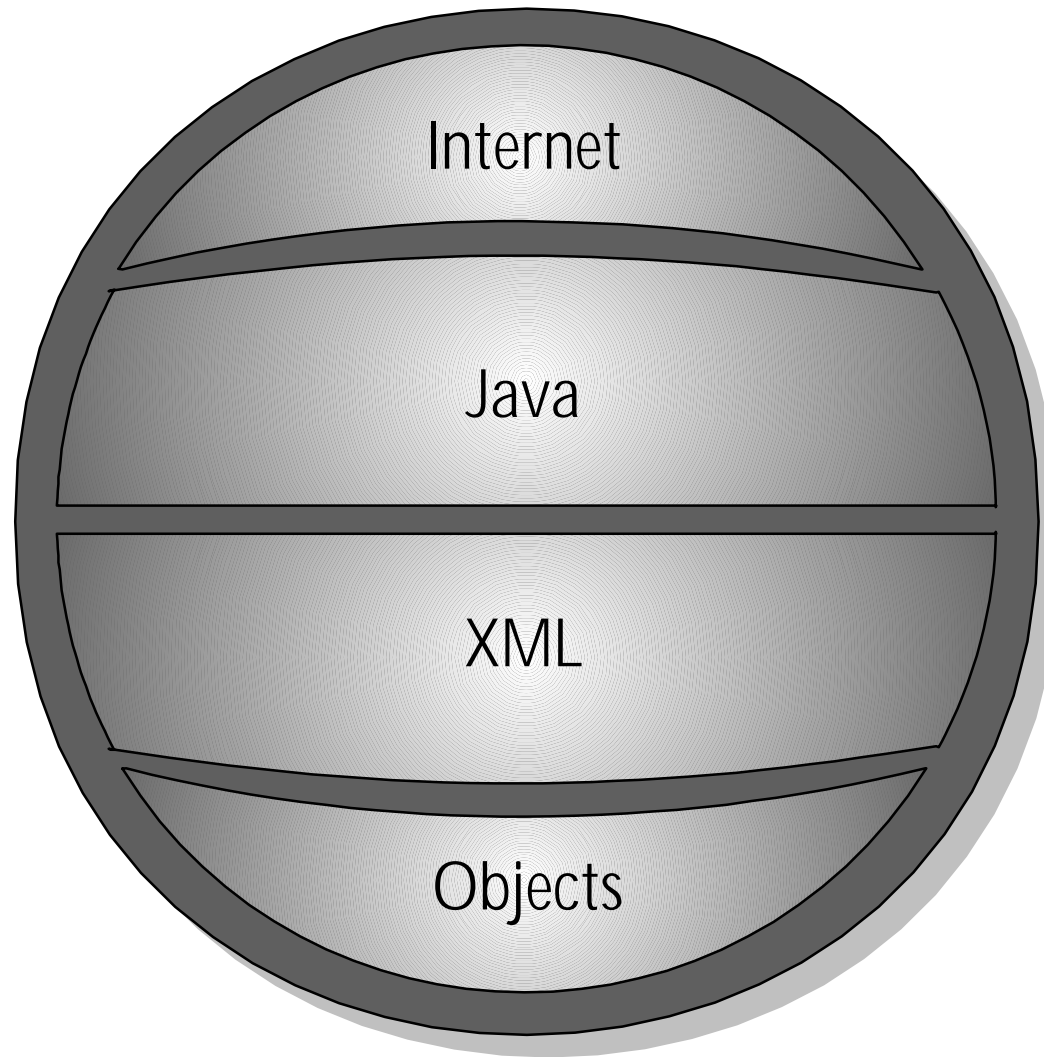
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The Solution-Centric World



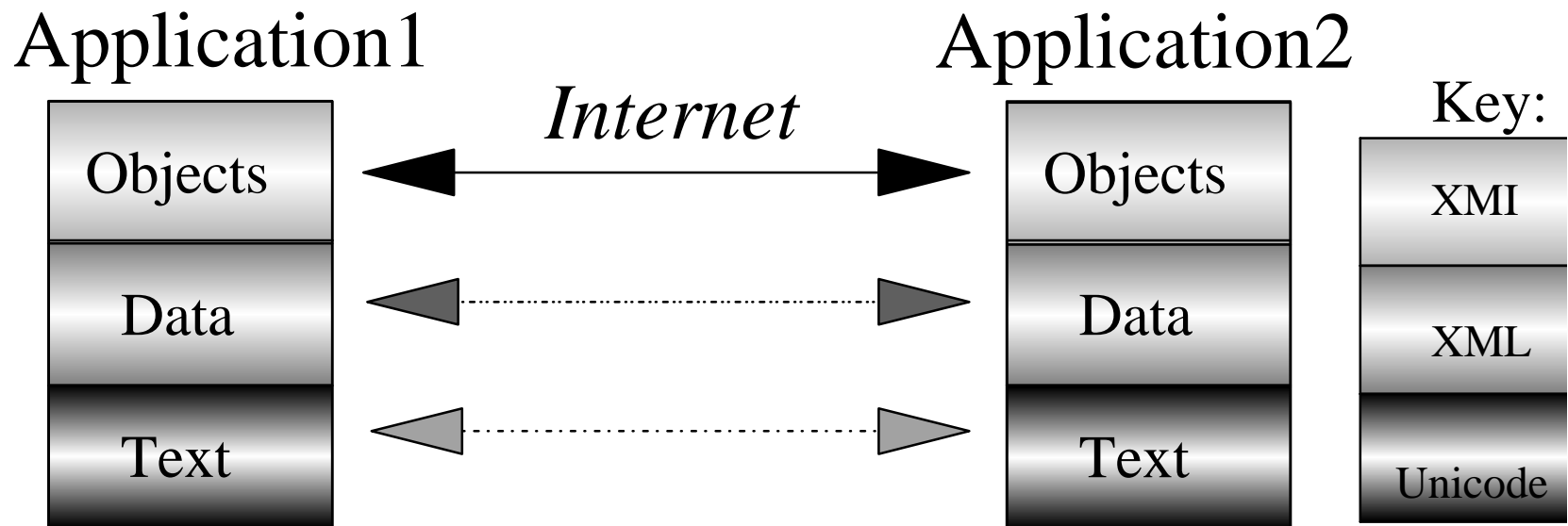
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Sharing Objects

- XML - Sharing Data
- XMI - Sharing Objects
 - ▶ Creates custom XML DTDs/Schemas and XML documents matching Object Designs.





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Concept-inspired XML

```
<Car>
  <doors>4</doors>
  <color>red</color>
</Car>
```

```
<auto doors="4" color="red"/>
```



```
Class Automobile {
  int numDoors;
  Color color;
}
```

```
<!ELEMENT Vehicle (door*)>
<!-- ATTLIST Vehicle
      Color CDATA #IMPLIED -->
```

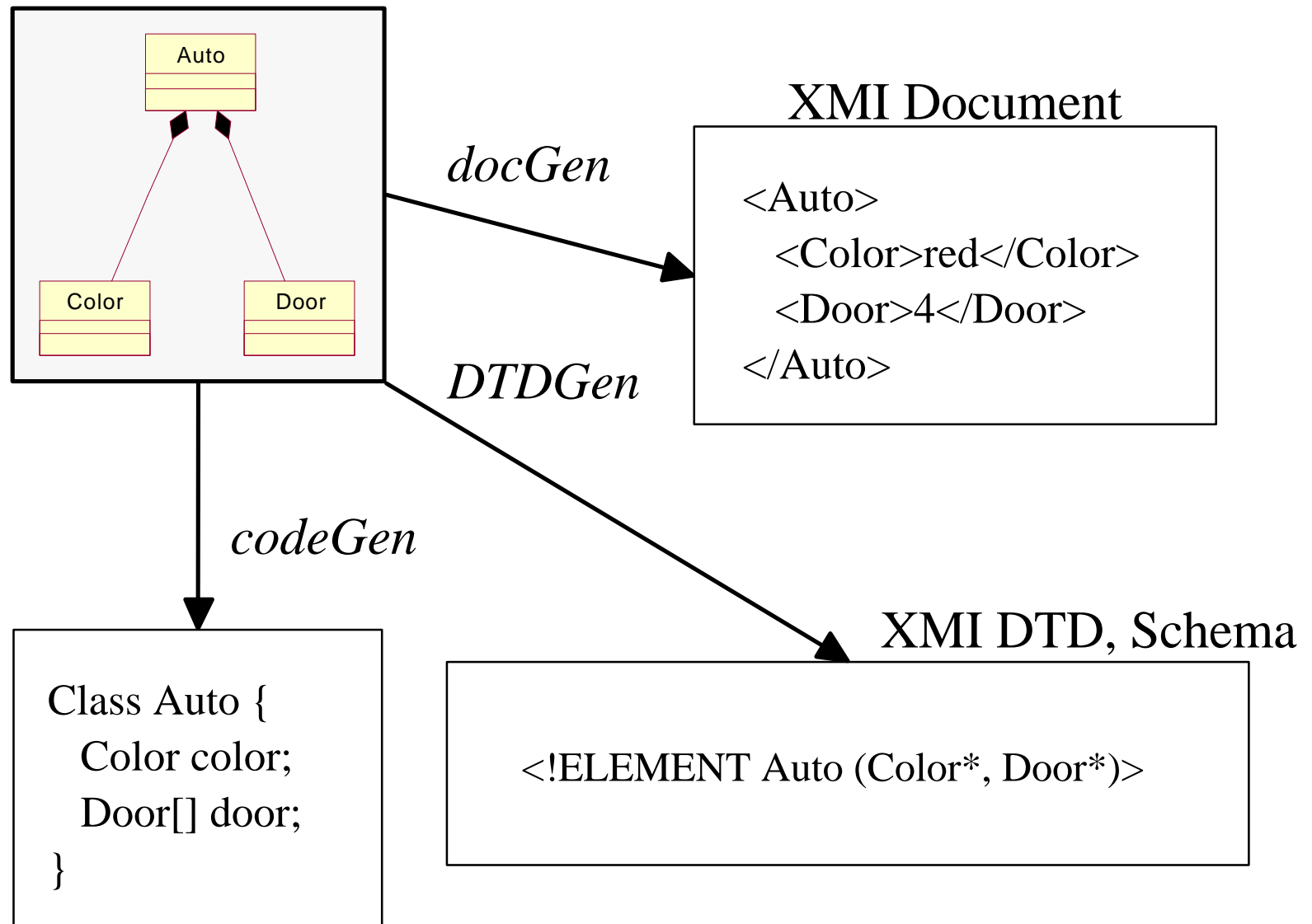
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Design-driven XMI

Objects and Designs



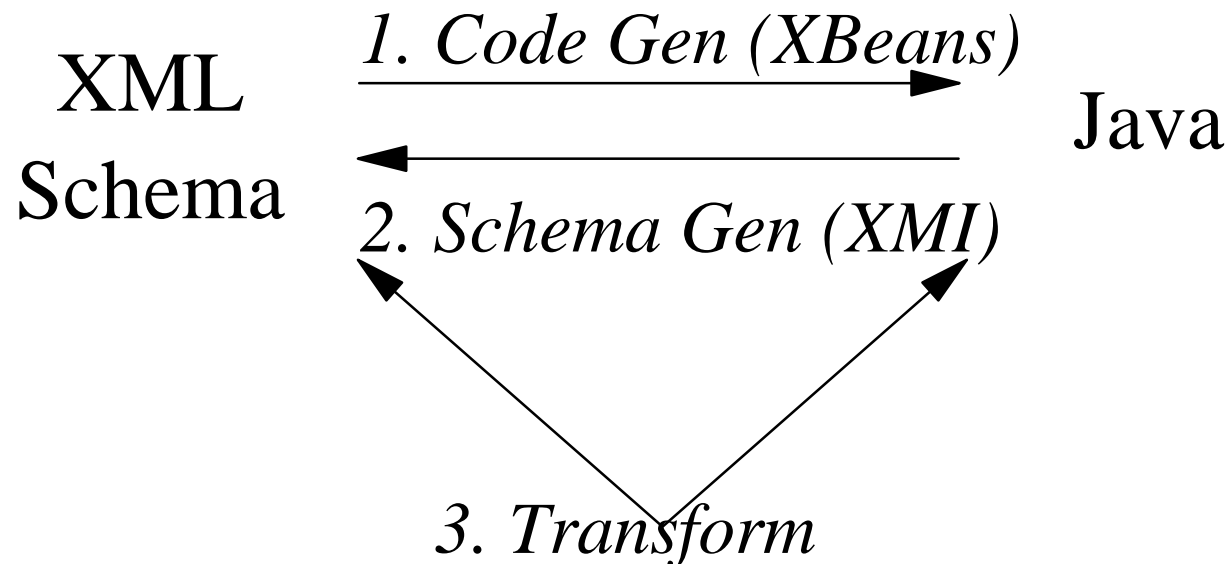
Services of the XMI Toolkit



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JSR 31 - Java/XML data binding

- Exchange Java objects using XML Schemas:
 1. Schema drives Java
 2. Java drives Schema
 3. Java - Schema transforms





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XMI Standard

- XML Open Metadata Interchange
 - ▶ Establish an industry standard specification for a stream-based model interchange format
 - ▶ Provide a generic format that can be used to transfer a wide variety of models
 - Allow exchange of OMG Object Analysis and Design Facility (OADTF) compliant models
 - CWM, UML, MOF, more coming...
- Support of 30+ vendors
- March 26, 1999 - OMG adopted technology
- XMI Revision Task Force - Oct '99
- UML/MOF/XMI package to be sent to ISO

The IBM logo, consisting of the letters 'IBM' in a bold, sans-serif font, with horizontal lines through the letters.

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